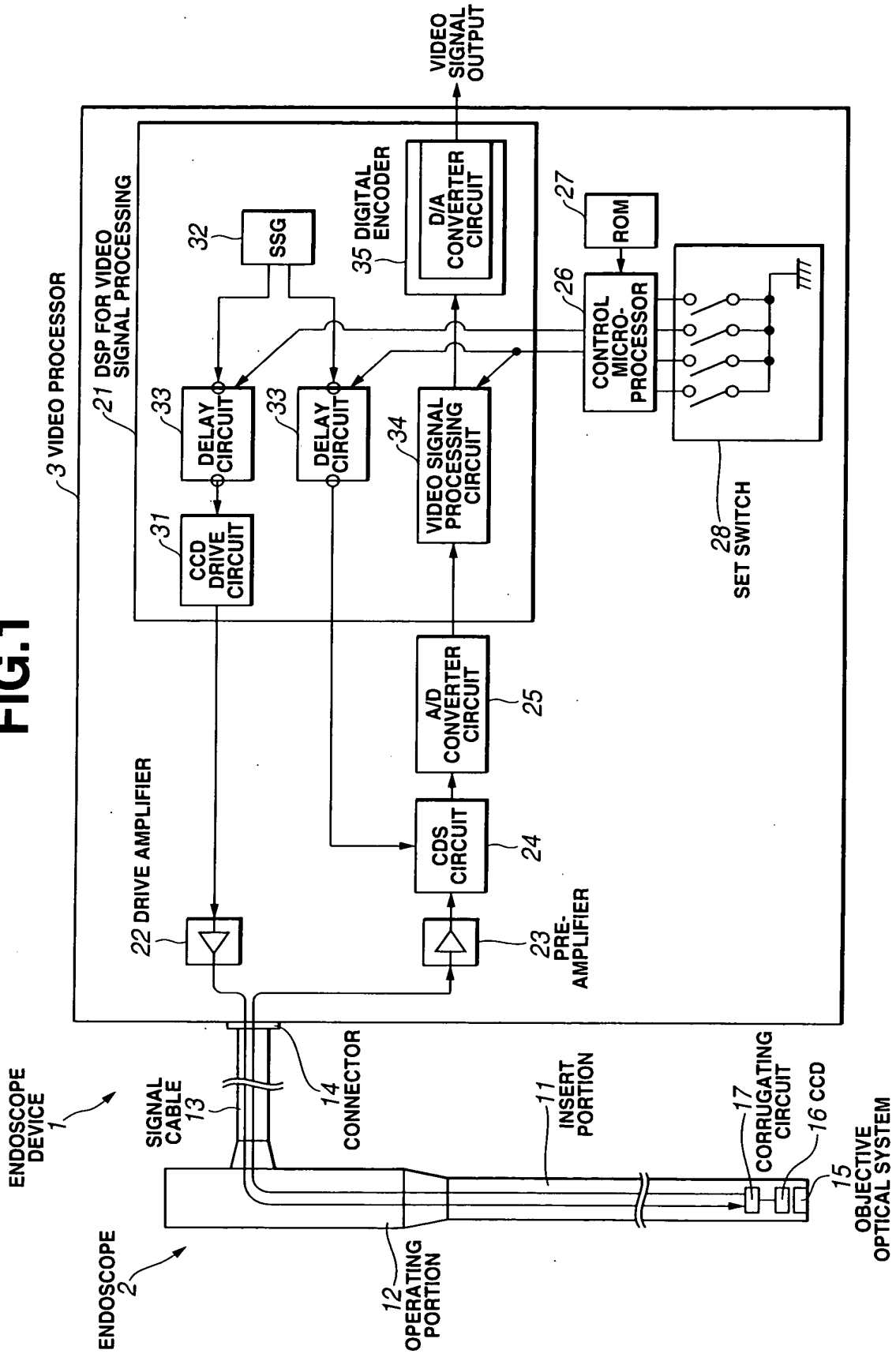
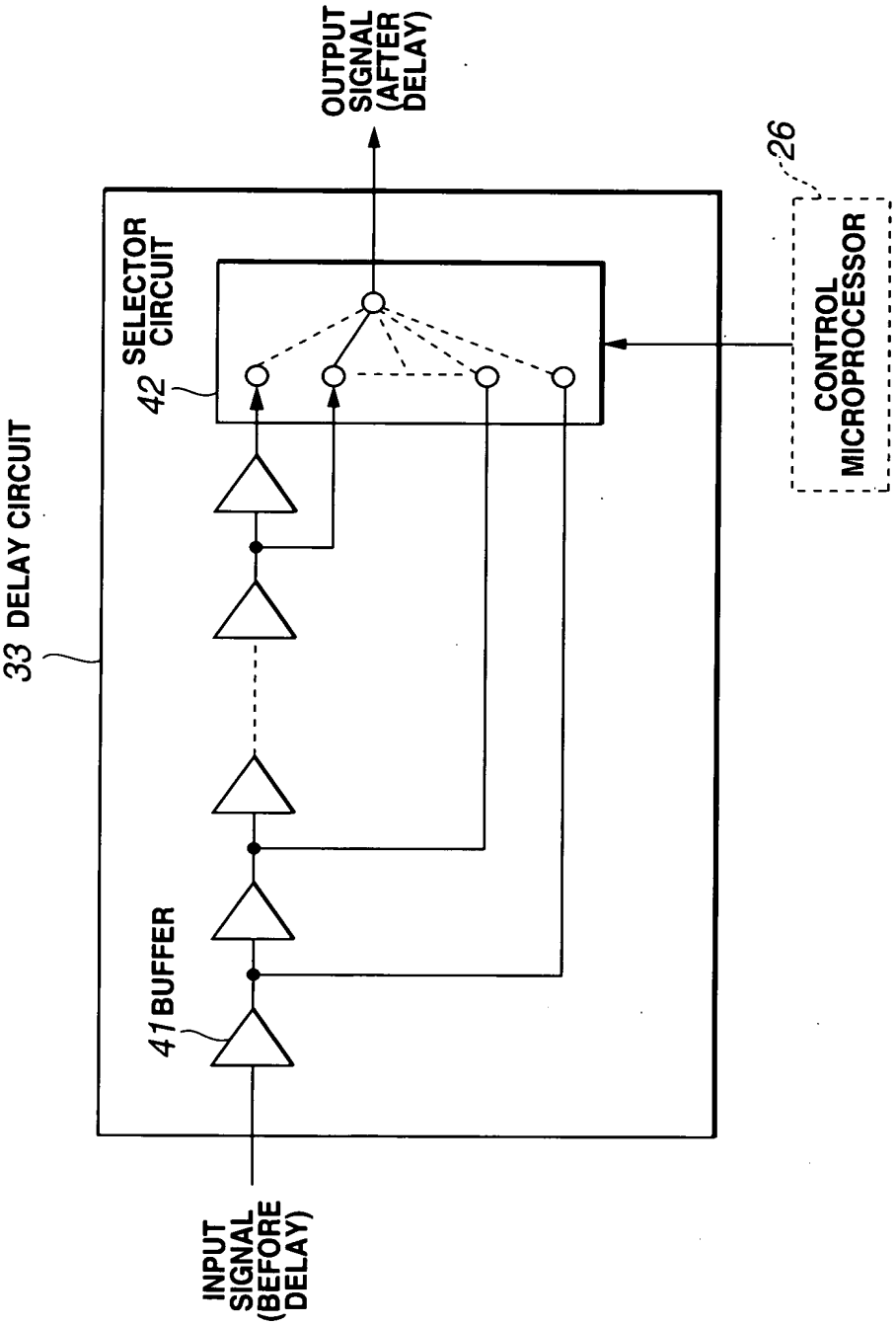
DRAFTSMAN | FIG. | SUBCLASS

FIG.1



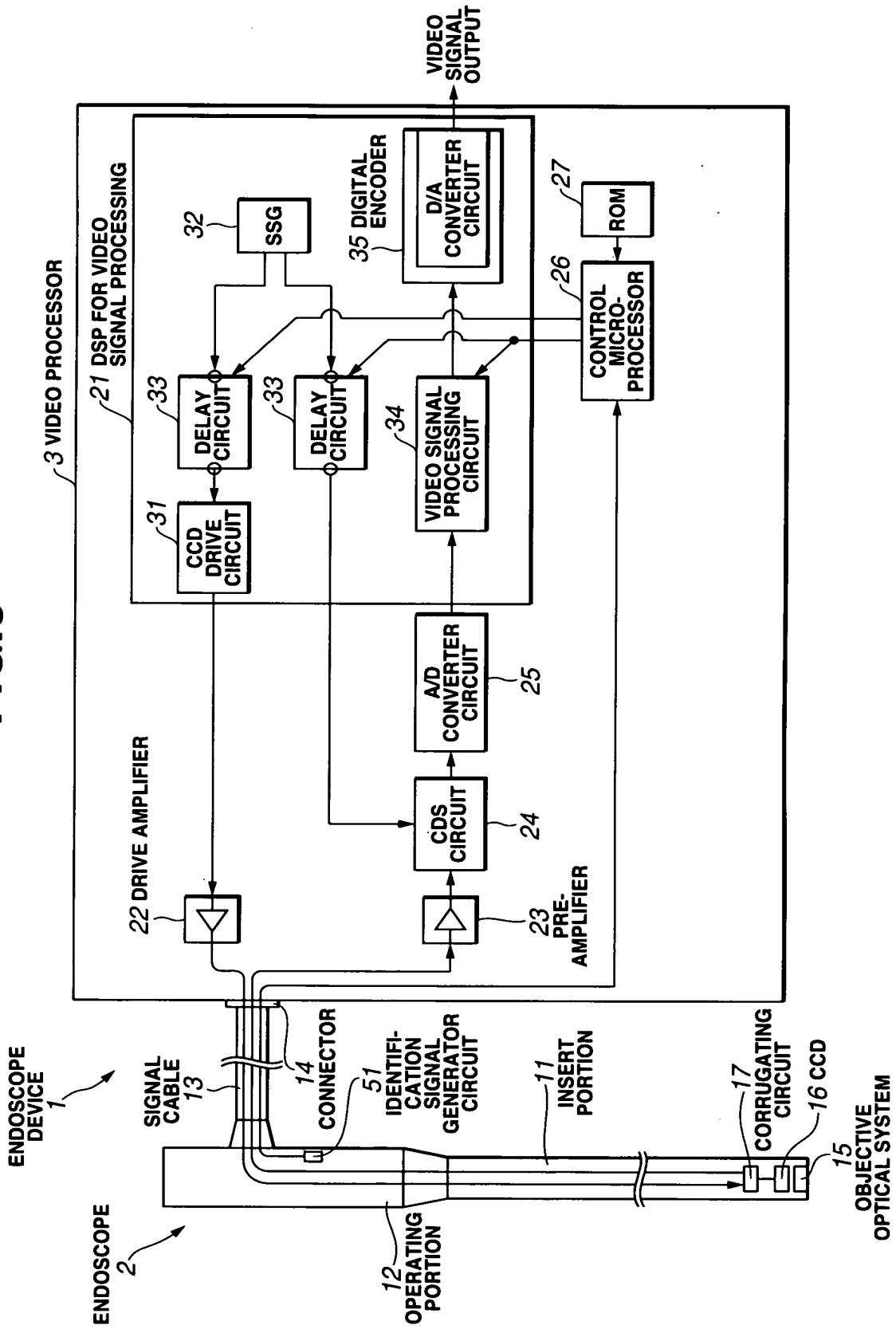
APPROVED O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG.2

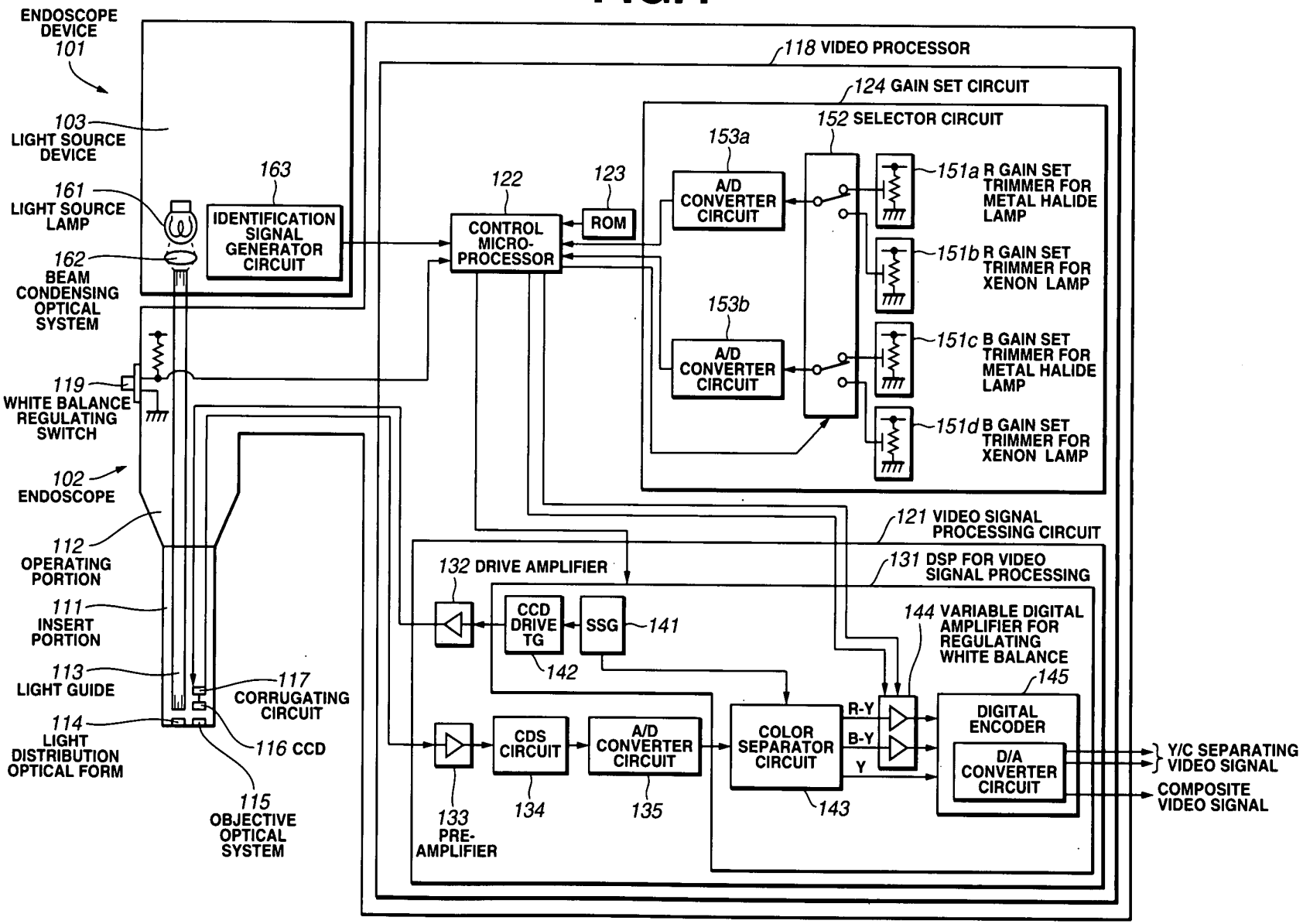


APPROVED FIG.
CLASS SUBCLASS
BY
DRAFTSMAN

FIG.3

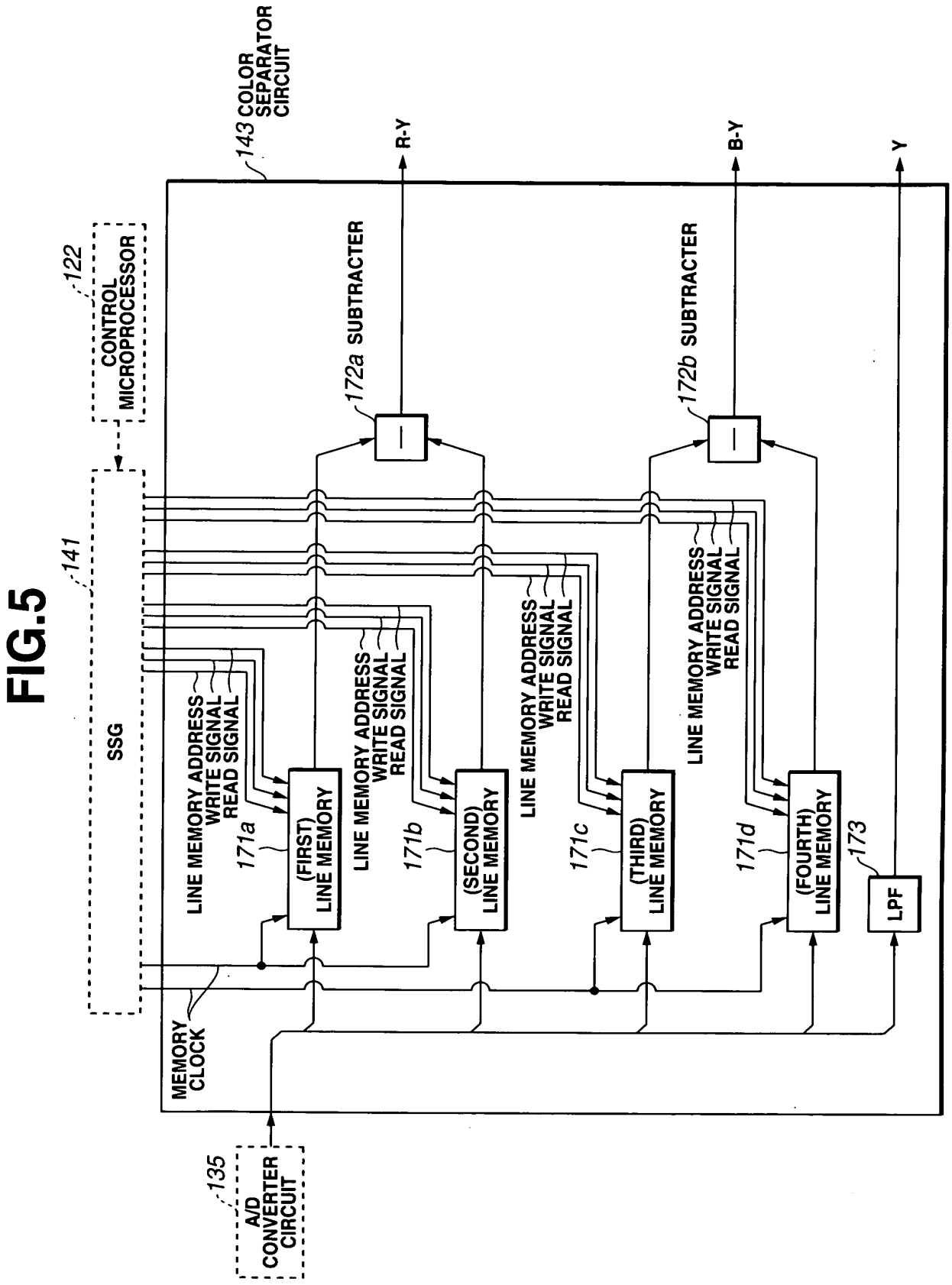


# FIG.4


ENDOSCOPE DEVICE
101
103
LIGHT SOURCE DEVICE
161
LIGHT SOURCE LAMP
162
BEAM CONDENSING OPTICAL SYSTEM
119
WHITE BALANCE REGULATING SWITCH
102
ENDOSCOPE
112
OPERATING PORTION
111
INSERT PORTION
113
LIGHT GUIDE
114
LIGHT DISTRIBUTION OPTICAL FORM
115
OBJECTIVE OPTICAL SYSTEM
116 CCD
117
CORRUGATING CIRCUIT
163
IDENTIFICATION SIGNAL GENERATOR CIRCUIT
118 VIDEO PROCESSOR
122
CONTROL MICRO-PROCESSOR
123
ROM
124 GAIN SET CIRCUIT
152 SELECTOR CIRCUIT
153a
A/D CONVERTER CIRCUIT
153b
A/D CONVERTER CIRCUIT
151a R GAIN SET TRIMMER FOR METAL HALIDE LAMP
151b R GAIN SET TRIMMER FOR XENON LAMP
151c B GAIN SET TRIMMER FOR METAL HALIDE LAMP
151d B GAIN SET TRIMMER FOR XENON LAMP
121 VIDEO SIGNAL PROCESSING CIRCUIT
131 DSP FOR VIDEO SIGNAL PROCESSING
132 DRIVE AMPLIFIER
CCD DRIVE TG
142
SSG
141
144 VARIABLE DIGITAL AMPLIFIER FOR REGULATING WHITE BALANCE
145
DIGITAL ENCODER
D/A CONVERTER CIRCUIT
Y/C SEPARATING VIDEO SIGNAL
COMPOSITE VIDEO SIGNAL
R-Y
B-Y
Y
COLOR SEPARATOR CIRCUIT
143
CDS CIRCUIT
134
A/D CONVERTER CIRCUIT
135
133
PRE-AMPLIFIER

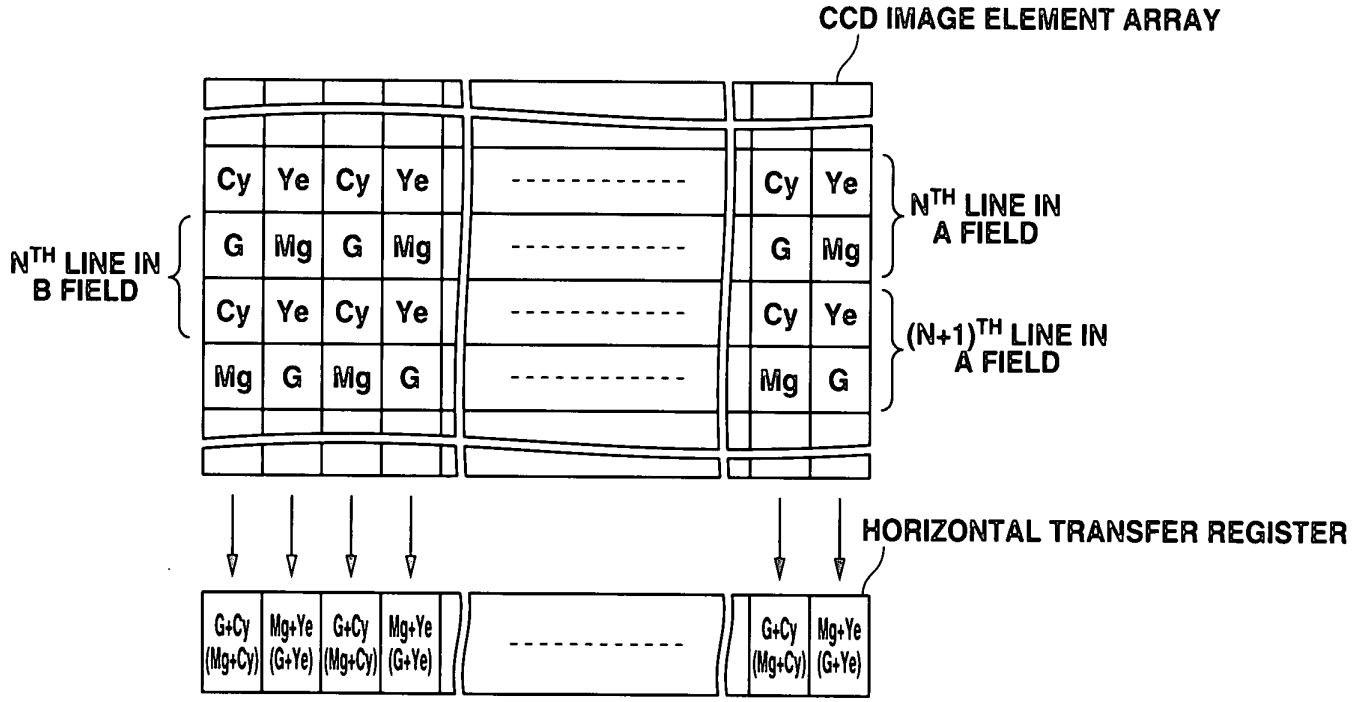
SUBCLASS

FIG.5



DRAFT SUBMITTED
FIG. SUBCLASS

FIG.6



APPROVED | FIG.
DRAFTSMAN | SUBCLASS

FIG.7

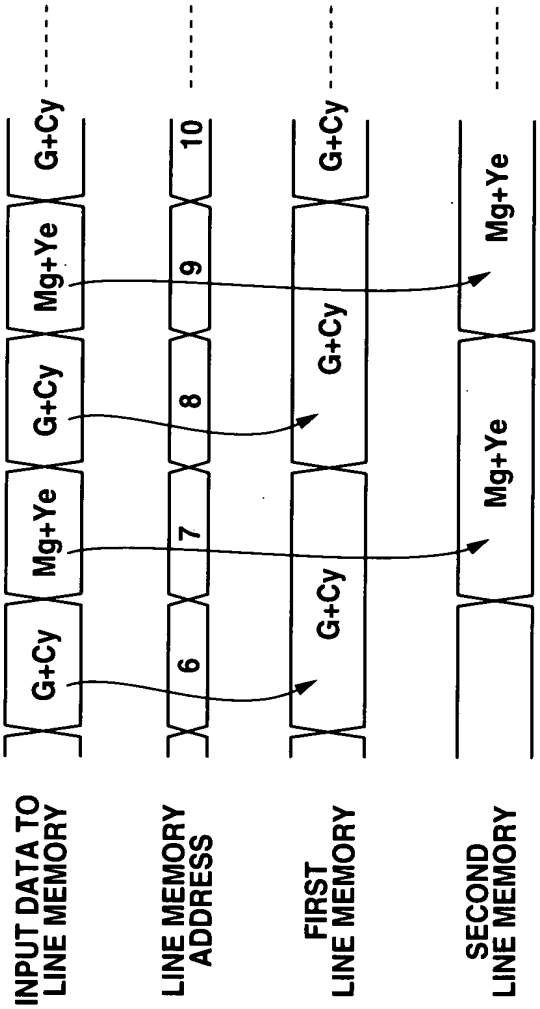


FIG. SUBCLASS

FIG.8(A)

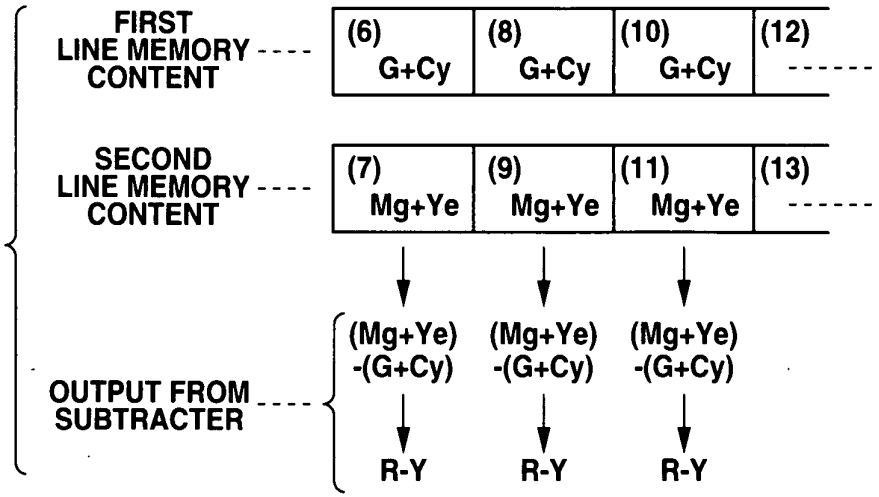
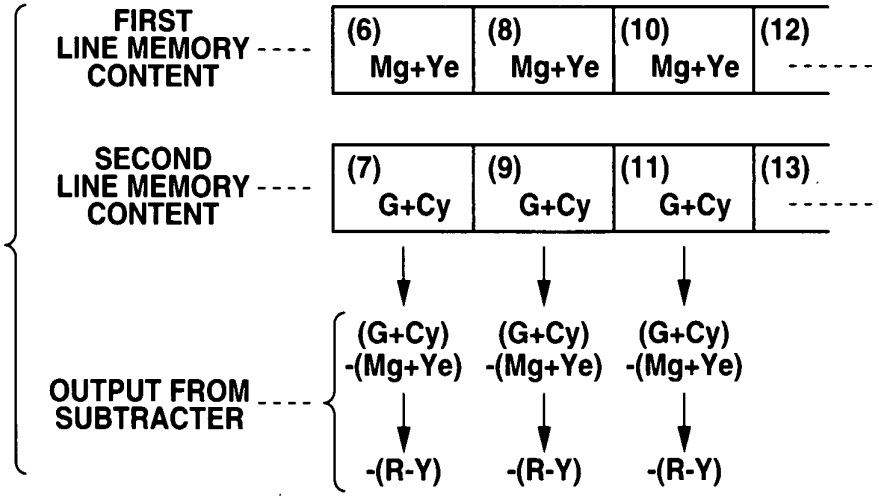



FIG.8(B)



APPROVED FIG.
SUBCLASS
DRAFTSMAN

FIG.9

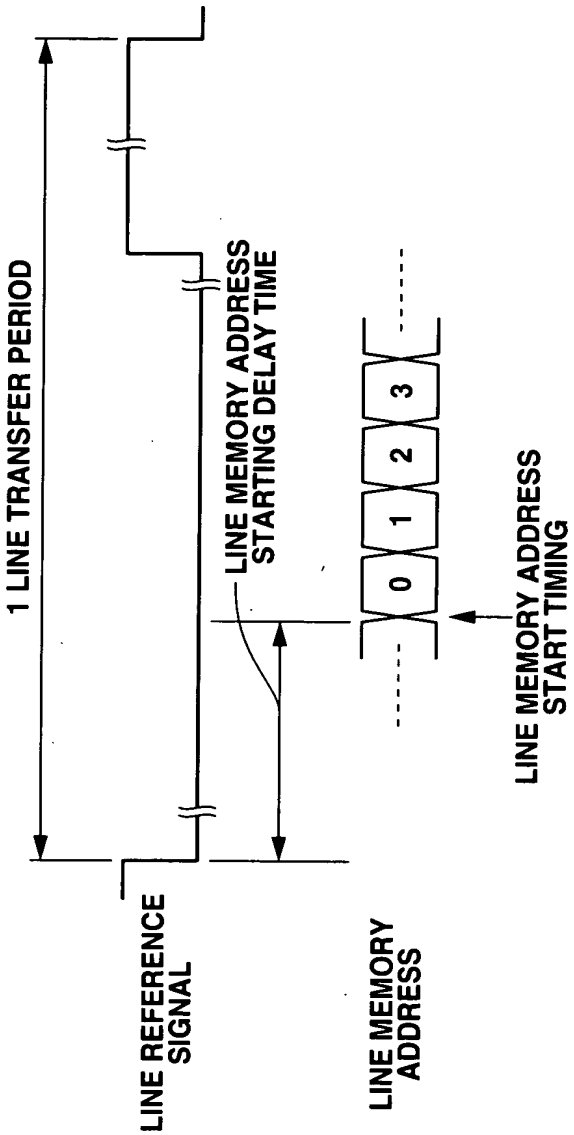
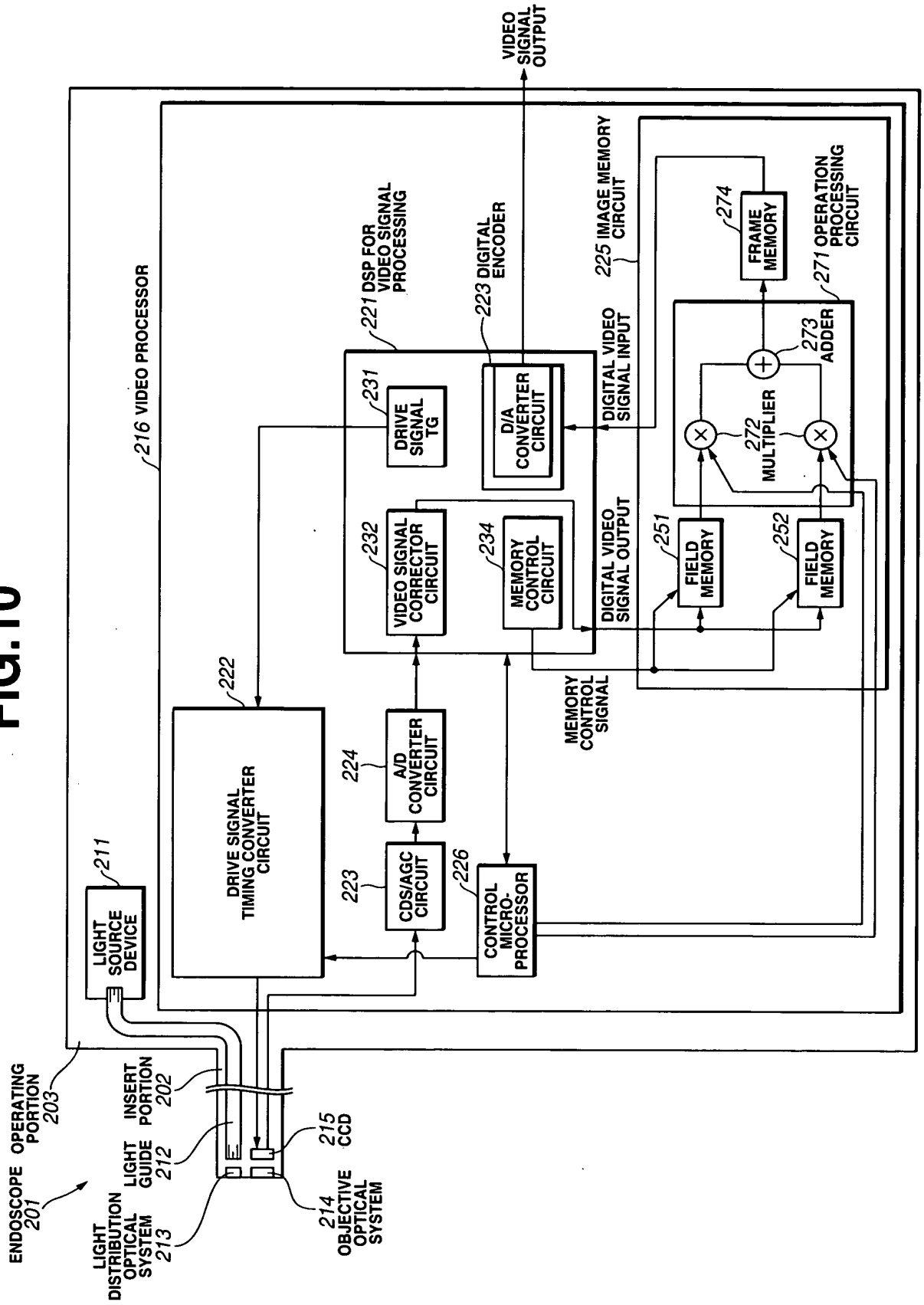


FIG.
SUBCLASS

FIG.10



ADD'L OVER ... FIG.
... SUBCLASS
DRAWN BY

FIG.11

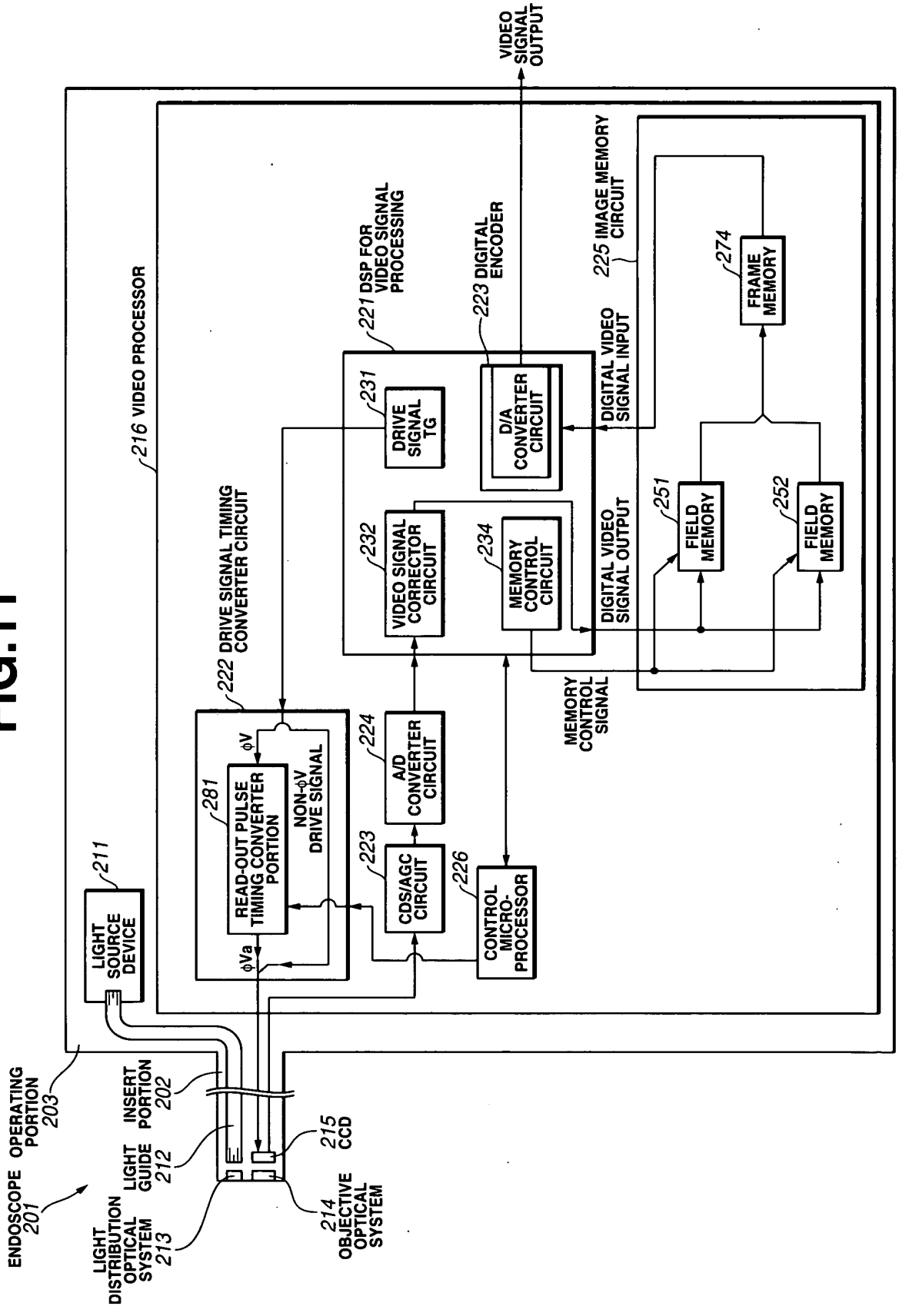


FIG.
SUBCLASS

# FIG.12

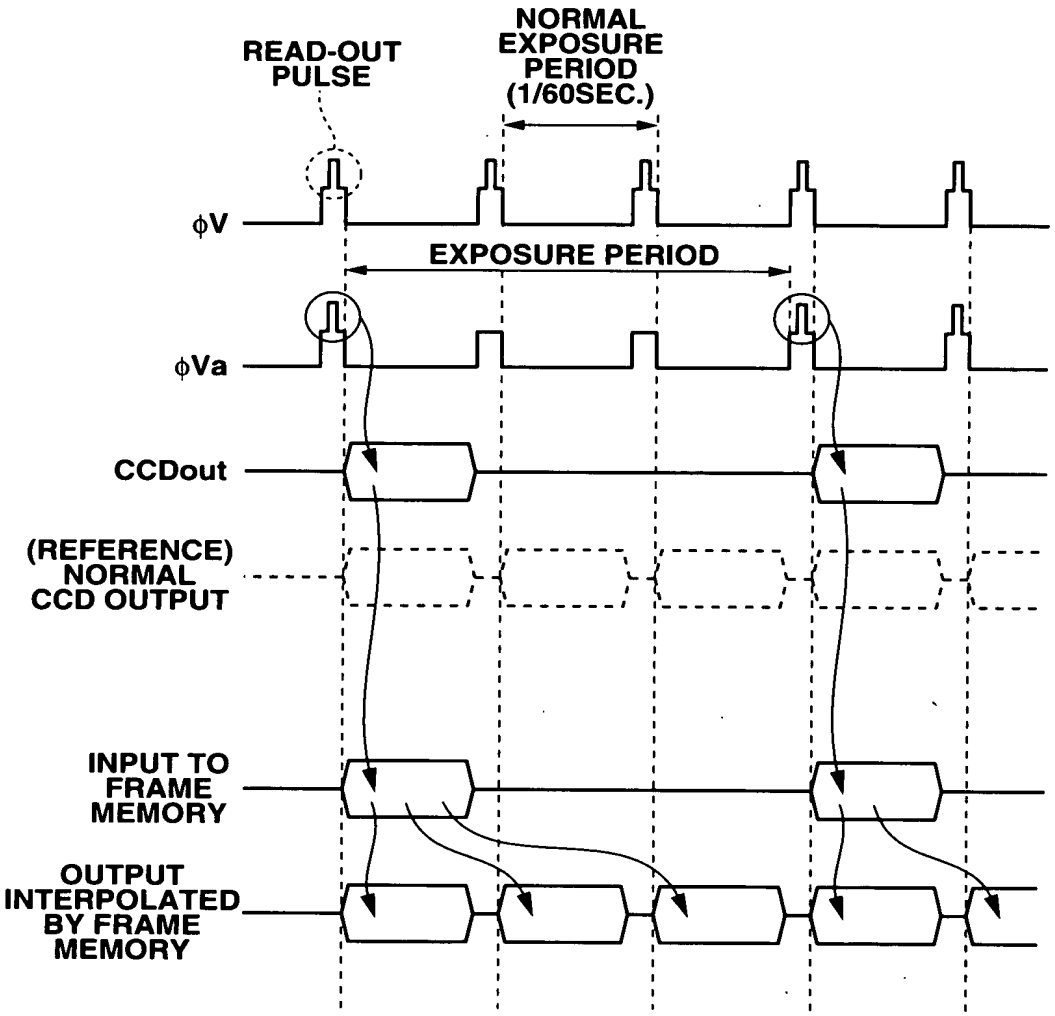
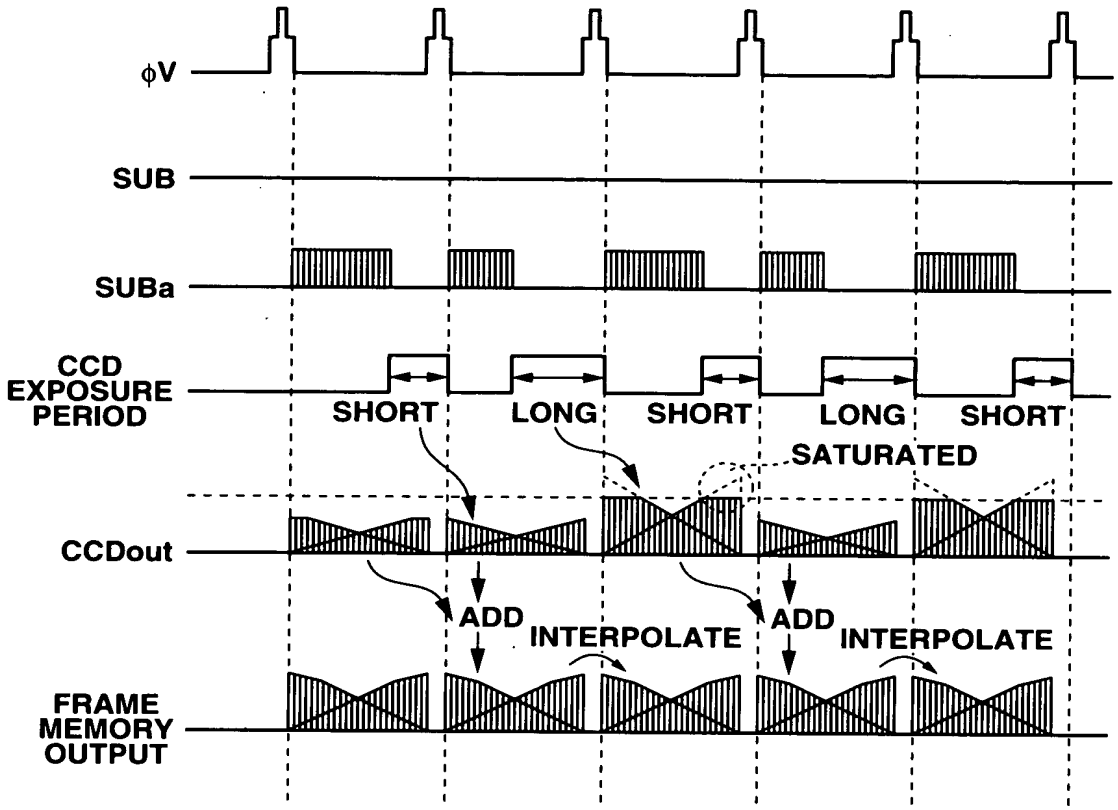
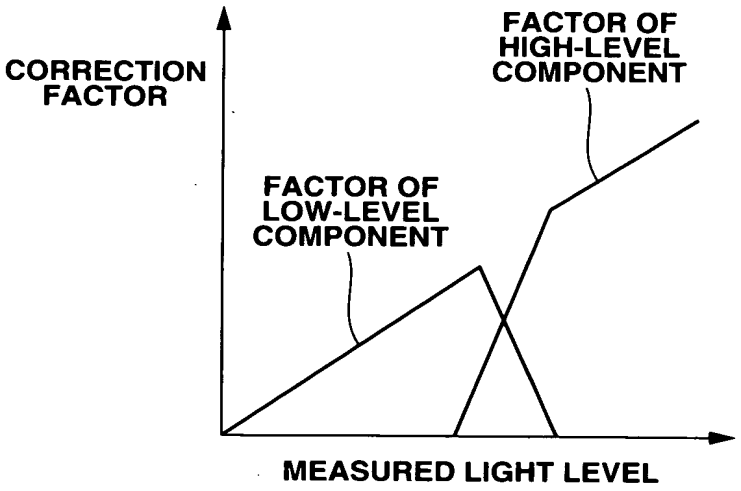


FIG.
SUBCLASS

# FIG.13

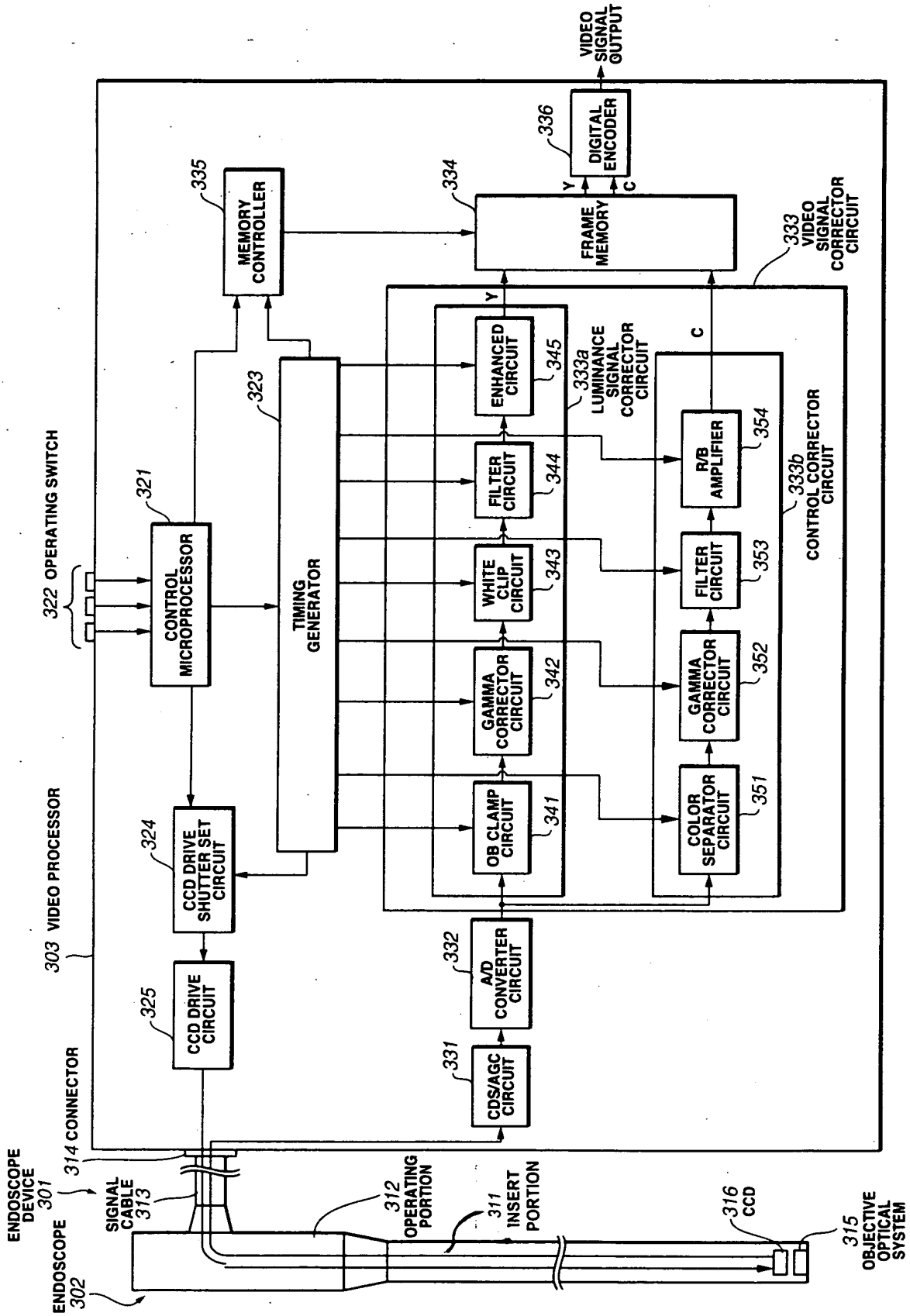



# FIG.14

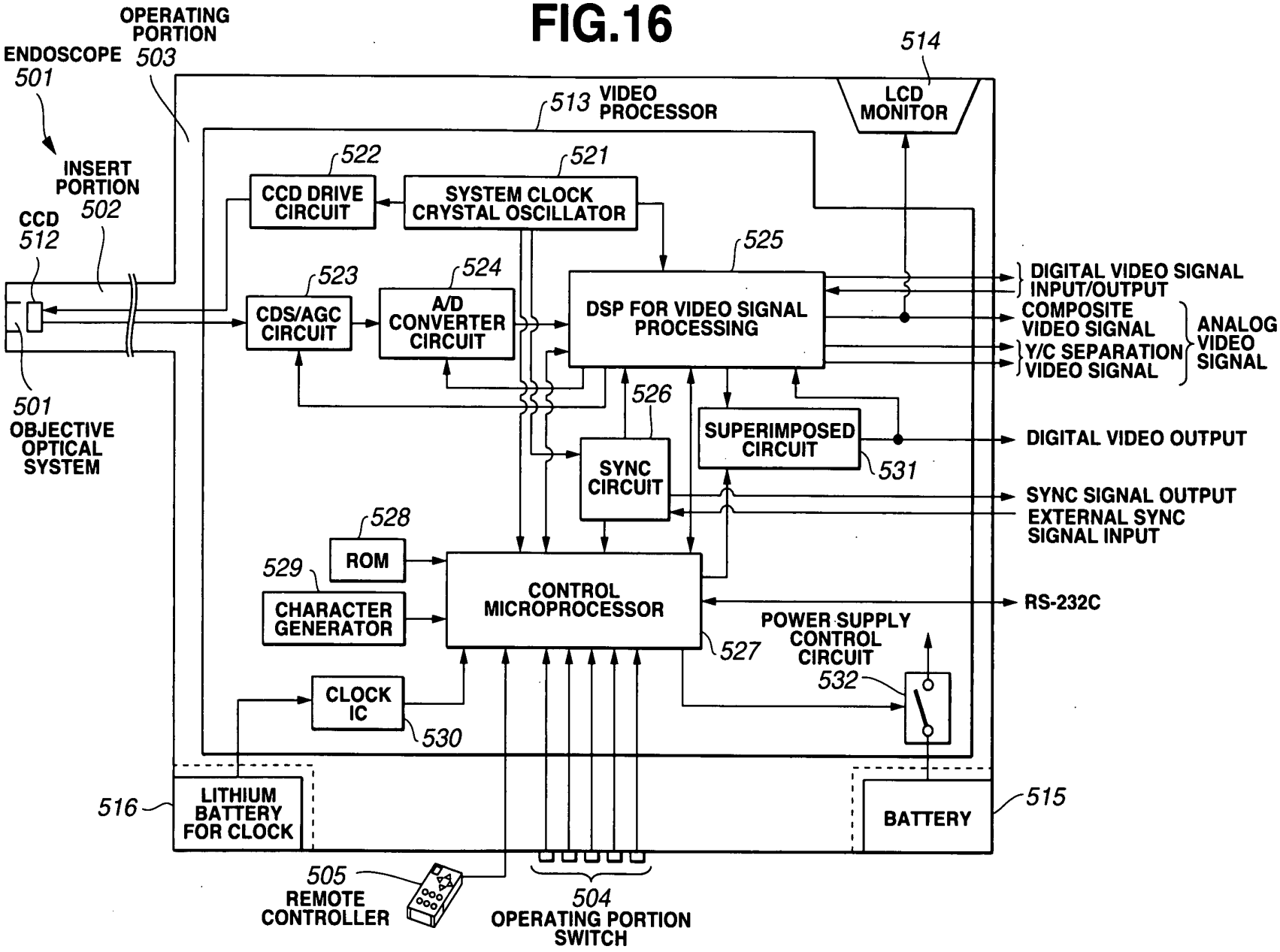


APPROVED O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

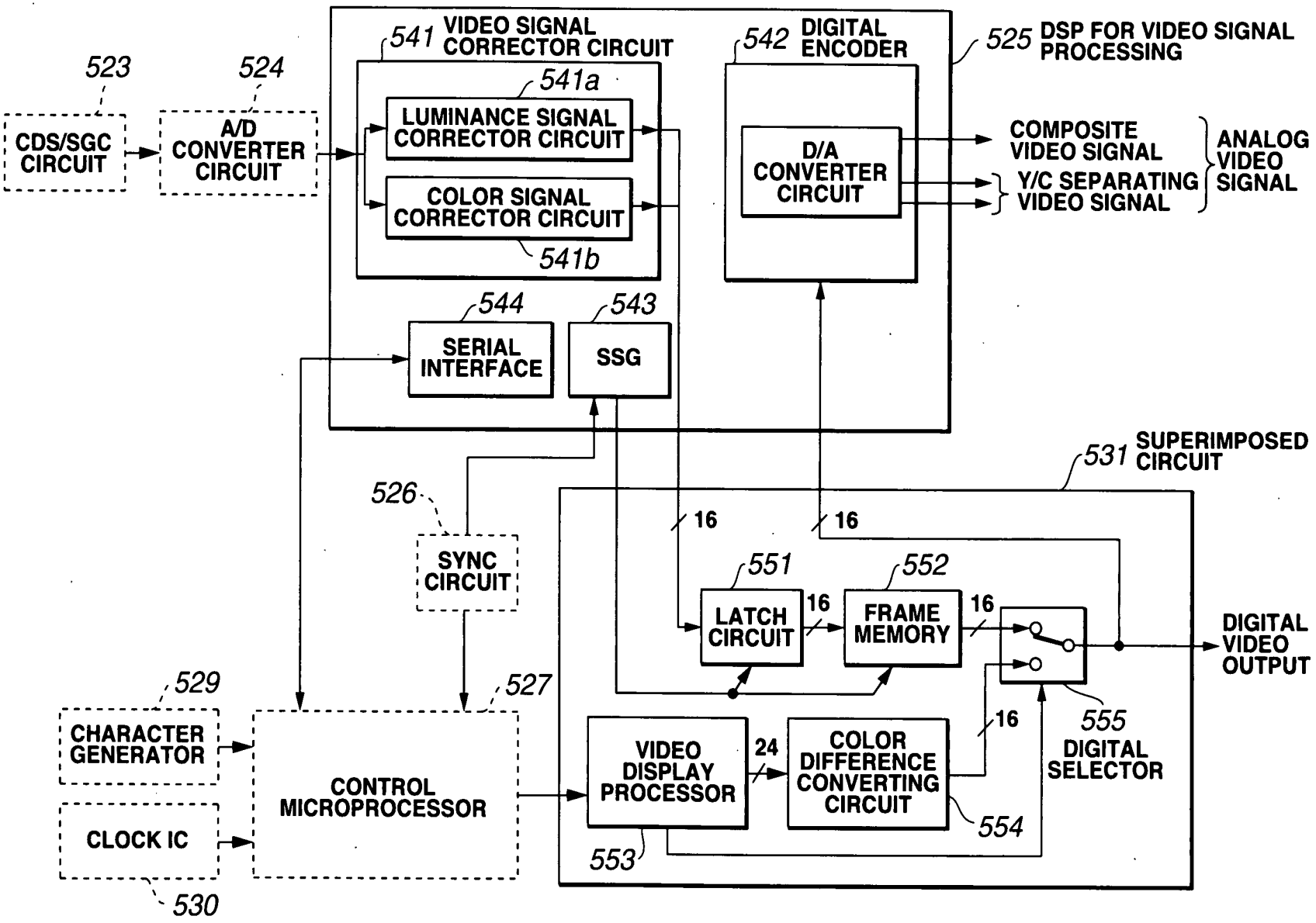
FIG.15



# FIG.16


OPERATING PORTION
503
ENDOSCOPE
501
INSERT PORTION
502
CCD
512
501
OBJECTIVE OPTICAL SYSTEM
513 VIDEO PROCESSOR
514
LCD MONITOR
522
CCD DRIVE CIRCUIT
521
SYSTEM CLOCK CRYSTAL OSCILLATOR
523
CDS/AGC CIRCUIT
524
A/D CONVERTER CIRCUIT
525
DSP FOR VIDEO SIGNAL PROCESSING
526
SYNC CIRCUIT
SUPERIMPOSED CIRCUIT
531
528
ROM
529
CHARACTER GENERATOR
CONTROL MICROPROCESSOR
527
CLOCK IC
530
POWER SUPPLY CONTROL CIRCUIT
532
516
LITHIUM BATTERY FOR CLOCK
BATTERY
515
505
REMOTE CONTROLLER
504
OPERATING PORTION SWITCH
DIGITAL VIDEO SIGNAL INPUT/OUTPUT
COMPOSITE VIDEO SIGNAL
Y/C SEPARATION VIDEO SIGNAL
ANALOG VIDEO SIGNAL
DIGITAL VIDEO OUTPUT
SYNC SIGNAL OUTPUT
EXTERNAL SYNC SIGNAL INPUT
RS-232C

# FIG.17


523
524
CDS/SGC CIRCUIT
A/D CONVERTER CIRCUIT
541 VIDEO SIGNAL CORRECTOR CIRCUIT
541a
LUMINANCE SIGNAL CORRECTOR CIRCUIT
COLOR SIGNAL CORRECTOR CIRCUIT
541b
542 DIGITAL ENCODER
D/A CONVERTER CIRCUIT
525 DSP FOR VIDEO SIGNAL PROCESSING
COMPOSITE VIDEO SIGNAL
Y/C SEPARATING VIDEO SIGNAL
ANALOG VIDEO SIGNAL
544
SERIAL INTERFACE
543
SSG
531 SUPERIMPOSED CIRCUIT
526
SYNC CIRCUIT
16
16
551
LATCH CIRCUIT
16
552
FRAME MEMORY
16
DIGITAL VIDEO OUTPUT
555
DIGITAL SELECTOR
529
CHARACTER GENERATOR
CLOCK IC
530
CONTROL MICROPROCESSOR
527
VIDEO DISPLAY PROCESSOR
24
COLOR DIFFERENCE CONVERTING CIRCUIT
16
554
553